The Journal of Systems and Software

Volume 24, Number 1, January 1994

Contents

Editor's Corner
User Satisfaction 1
Robert L. Glass

A Rapid Prototyping System for Distributed Information System Applications
Wanlei Zhou 3

An Integrated Object-Oriented Analysis and Design Method Emphasizing Entity/Class Relationship and Operation Finding 31
Jen-Yen Chen and Yu-Shiang Hung

Distributed Multicasting Algorithm with Congestion Control and Message Routing 49
Anna Hać

Controversy Corner 67
Software Engineering Policy and Practice: Lessons from the Alvey Program
Paul Quintas

Biographies 89

Volume 24, Number 2, February 1994

Contents

Editor's Corner
Object-Orientation: Theory and Practice (II) 91
Robert L. Glass

Object-Oriented Case-Supported Development of Information Systems 95
Oscar Barros

Transaction Management in an Object-Oriented Data Base System 115
Pinaki Shah and Johnny Wong

A New Object-Oriented Method Integrating Jackson Structured Programming Method 125
Jen-Yen Chen and Yao-Ting Tim Chen

A Methodology for Deriving an Entity-Relationship Model Based on a Data Flow Diagram 139
Feng-Yang Kuo

Some Aspects of Operations in an Object-Oriented Data Base Based on Graphs 155
Jorng-Tzong Horng and Baw-Jhiune Liu

Decomposition/Generalization Methodology for Object-Oriented Programming 181
Václav Rajlich

The Design and Translation of ORL: An Object Retrieval Language 187
Susan Darling Urban, Chiung-hsun Chen Lai, and Sanjay Saxena

Biographies 207

Volume 24, Number 3, March 1994

SPECIAL ISSUE OF THE BEST PAPERS FROM THE OREGON WORKSHOP ON SOFTWARE METRICS, 1993

Contents

Guest Editor's Introduction 209
Warren Harrison

Alternative Approaches for the Use of Metrics to Order Programs by Complexity 211
Taghi M. Khoshgoftaar, John C. Munson, and David L. Lanning

Real-Time Software Metrics 223
Curtis R. Cook, Andreas Roesch, and C. W. Vowell

A Software Metric Set for Program Maintenance Management 239
George E. Stark and Louise C. Kern

Construction and Testing of Polynomials Predicting Software Maintainability 251
Paul Oman and Jack Hagemeister

PAPERS NOT FROM THE OREGON WORKSHOP

Use of a Group Support System to Evaluate Management Information System Effectiveness 267
Abdelhaleem Ashqar, Brian J. Reithel, Milam W. Aiken, and Ashraf Shirani

Relationship Definition and Management: Tools for Requirements Analysis 277
H. Joel Jeffrey and Anthony O. Putman

Biographies 295

Volume Contents